

ABSTRACT

The tone reproduction characteristics of a color monitor are determined at high precision by visual recognition. A pattern display means (230) displays a test pattern, comprising circular patterns (50) and a background (60), on the screen of the monitor (100) to be measured. In the background (60), a reference pattern, which is generated by a reference pattern generating means (220), is formed of a black-and-white pattern, and has a prescribed reference luminance, is displayed, and in each circular pattern (50), an even pattern with RGB tone values designated by a tone value designating means (210) is displayed. The tone of the even pattern is varied so as to vary in brightness and color by a tone value varying means (240). When the circular patterns (50) become the same in brightness and color as the background (60), an operator provides a coincidence signal to a coincidence signal input means (250). A characteristics computing means (260) computes curves, indicating the tone reproduction characteristics according to the respective colors of R, G, and B, based on the reference luminance and the corresponding tone values at this point. The circular patterns (50) are positioned at a pitch that is in accordance with the spatial frequency sensitivity of human eyes.